



Personal information

Full name: Karar Mahdi Talib
The scientific title : Assistant Professor
Address: Samawah, Iraq
Telephone: 009647830635155 **Mobile:** 07801730276
E-mail: karar.mahdi@mu.edu.iq
Date of birth: 23/03/1982

Education and training

2006 B.Sc. Physical Science, Al-Muthanna University, Iraq
2012 M.Sc. Medical Physics Science, Pune University, India
2021 Ph.D. Radiological Physics, Mustansiriyh University, Iraq

Work experience

2007 Missions and Cultural Relations Unit
2012 A faculty member at Al-Muthanna University, College of Dentistry.
2012-2018 Head of Basic science department
2021- still now Head of Basic science department

Published research(s)

2017 Studying the Optical Properties of Rhodamine110 Dye Mixture Doped in PVC Thin Films.
2018 Effect Of Thermal Annealing On The Optical Properties Of Thin Films Of Polymer Blend (PMMA: PVC: PS).
2018 Effect of Mixing on the Optical Parameters of Polymer Blend (PMMA: PVC: PS) Thin Films.
2020 Optical constants of cobalt chloride doped poly (vinyl alcohol) thin films.



- 2020 Study the Characteristics, inverse square law and Application of Geiger.
- 2021 Exposure and Etching Time Effects on The Fission Track Density in CR-39 Detectors using Teeth Samples.
- 2021 Effect of Etching time on the track density of fission fragments human teeth samples with Lexan detector.
- 2021 Determination uranium concentration of teeth in Al-Samawa city using the CR-39 nuclear track detector.
- 2021 Determination uranium concentration of teeth in Al-Samawa city using the CR-39 nuclear track detector.
- 2021 Study total atomic cross sections, effective atomic numbers and electron densities for palmitic acid by using sources of gamma ray.
- 2023 Green Synthesis of KO Nanoparticles by Cold Plasma and Study of Their Properties for Antibacterial Applications.
- 2024 Detection of radon gas in the buildings of the faculty of dentistry at AL-Muthanna / Iraq.
- 2024 Green fabrication of CuO-egTiO₂ composite for photodegradation of organic pollutant under direct visible light illumination

Academic accounts

Scopus: karar.mahdi@u.edu.iq

Research gate: karar.mahdi@u.edu.iq

ORCID: <https://orcid.org/0000-0002-9929-0620>

Research direction

- Radioactive pollution I work in the field of Radioactive pollution, Measuring the percentage of radon gas in water and buildings.
- • Measuring the percentage of uranium in the teeth.